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	Safety Data Sheet according to 1907/2006/EC, Article 31
Printing date 05.08.2010	Revision: 05.08.201
1 Identification of substance Product details	
Trade name	3,4-Dimethylthiophene-2,5-dicarbonitrile
Stock number:	B24371
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.cor D-76185 Karlsruhe / Germany www.alfa-chemcat.cor
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification Hazard designation:	
Information pertaining to particular dangers	Xn Harmful
for man and environment	R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
GHS label elements	R 36/37/38 Irritating to eyes, respiratory system and skin. Warning
	H302 - Harmful if swallowed. H312 - Harmful in contact with skin.
	H332 - Harmful if inhaled. H315 - Causes skin irritation.
	H319 - Causes serious eve irritation
Prevention: Response:	H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P202 J252 JE ON SKIN: Week with clothy of coop and water
Kesponse.	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label).
Storage: Disposal:	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Composition/information on ingredient	S
Chemical characterization: Designation: (CAS#)	3,4-Dimethylthiophene-2,5-dicarbonitrile
	(CAS# 155632-41-0): 100%
4 First aid measures	
General information	Instantly remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.
After inhalation	In case of irregular breathing or respiratory arrest provide artificial respiration. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Do not induce vomiting; instantly call for medical help. Seek immediate medical advice.
5 Fire fighting measures	
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide
	Nitrogen oxides (NOx) Sulphur oxides (SOx)
Protective equipment:	Hydrogen cyanide (HCN) Wear self-contained breathing apparatus. Wear full protective suit.
6 Accidental release measures	
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governmental permits. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
7 Handling and storage	
Handling Information for safe handling:	Keep containers tightly sealed.
Information about protection against	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
explosions and fires: Storage Requirements to be met by storerooms and	Keep ignition sources away - Do not smoke.
containers: Information about storage in one common	No special requirements.
storage facility: Further information about storage	Store away from oxidizing agents.
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.
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## Trade name 3,4-Dimethylthiophene-2,5-dicarbonitrile

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8 Exposure controls and personal protect	
Additional information about design of	
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velo of at least 100 feet per minute.
Components with critical values that require	
monitoring at the workplace:	Not required.
Additional information:	No datà
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals
Ceneral protective and hygicille measures	Keep away from foodstuffs, beverages and food.
	Instantly remove any soiled and impregnated garments.
	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of qual and varies from manufacturer to manufacturer.
Evo protoction:	and varies from manufacturer to manufacturer. Safety glasses
Eye protection:	Face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
	Daudar
Form: Colour:	Powder Light brown
Smell:	Not determined
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	122-124°C Not determined
Boiling point/Boiling range: Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined
Upper:	Not determined
Steam pressure:	Not determined
Density	Not determined
avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx)
	Hydrogen cyanide (prussic acid)
1 Toxicological information	Hydrogen cyanide (prussic acid)
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rade name 3,4-Dimethylthiophene-2,5-dicarbonitrile		
	(Contd. of page	
Designation of goods: Limited quantities (LQ) Transport category Tunnel restriction code	3439 NITRILES, TOXIC, SOLID, N.O.S. (3,4-Dimethylthiophene-2,5-dicarbonitrile) LQ9 2 E	
Maritime transport IMDG/GGVSea:		
IMDG/GGVSea Class: UN Number: Label Packaging group: Marine pollutant: Correct technical name:	6.1 3439 6.1 III No NITRILES, TOXIC, SOLID, N.O.S. (3,4-Dimethylthiophene-2,5-dicarbonitrile)	
Air transport ICAO-TI and IATA-DGR:	NTRIES, TOXIC, SOLID, N.O.S. (3,4-Dimetriyitrilophene-2,3-dicarbonitrile)	
ICAO/IATA Class: UN/ID Number: Label Packaging group:	6.1 3439 6.1 III	
Correct technical name:	NITRILES, TOXIC, SOLID, N.O.S. (3,4-Dimethylthiophene-2,5-dicarbonitrile)	
UN "Model Regulation":	UN3439, NITRILES, TOXIC, SOLID, N.O.S., 6.1, III	
5 Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of product:	Xn Harmful	
Risk phrases:	20/21/22 Harmful by inhalation, in contact with skin and if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	<ul> <li>Keep container in a well-ventilated place.</li> <li>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>36/37 Wear suitable protective clothing and gloves.</li> </ul>	
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.	
16 Other information: Employers should use this information only as this information to ensure proper use and pro not in conformance with this Material Safety I	s a supplement to other information gathered by them, and should make independent judgement of suitability of tect the health and safety of employees. This information is furnished without warranty, and any use of the produ Data Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing data specification she	et: Health, Safety and Environmental Department.	
Contact: Abbreviations and acronyms:	Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage o Dangerous Goods by Road) RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association	
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